



CONSTRUCTION EQUIPMENT

662078 VOLVO A30F 82303 - DROP BOX



Sample No: VCP441914
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 662078



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP441914 | VCP390088 | VCP266223 | VCP177212 |
| Sample Date | 02 Feb 2024 | 28 Dec 2022 | 25 Apr 2020 | 01 Apr 2016 |
| Machine Hours | 12787 | 11500 | 10182 | 4143 |
| Oil Hours | 4000 | 11500 | 2000 | 0 |
| Oil Changed | Changed | Not Chngd | Changed | Changed |
| Sample Status | SEVERE | ATTENTION | ATTENTION | NORMAL |

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

| | | | | | |
|-------------|-----|-----|-------|--------|-------|
| Visc @ 40°C | cSt | --- | ▲ 289 | ▲ 96.8 | 229.6 |
|-------------|-----|-----|-------|--------|-------|



CONTAMINATION

| | | | | | |
|-----------|-----|---------------|------|------|------|
| Water | % | ◆ 48.7 | NEG | NEG | NEG |
| Silicon | ppm | ■ 44 | ■ 21 | ■ 8 | ■ 10 |
| Sodium | ppm | ■ 0 | ■ <1 | ■ <1 | ■ <1 |
| Potassium | ppm | ■ <1 | ■ 0 | ■ 0 | ■ 1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-------|------|------|
| Iron | ppm | ▲ 866 | ■ 120 | ■ 91 | ■ 39 |
| Copper | ppm | ■ 20 | ■ 12 | ■ <1 | ■ <1 |
| Lead | ppm | ■ <1 | ■ 0 | ■ 0 | ■ <1 |
| Tin | ppm | ■ 4 | ■ <1 | ■ 0 | ■ 0 |
| Aluminum | ppm | ■ 10 | ■ 1 | ■ 3 | ■ 10 |
| Chromium | ppm | ▲ 10 | ■ 1 | ■ 1 | ■ <1 |
| Molybdenum | ppm | ■ 0 | ■ 1 | ■ <1 | 2 |
| Nickel | ppm | ■ 2 | ■ <1 | ■ <1 | ■ <1 |
| Titanium | ppm | <1 | <1 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 7 | ■ 1 | ■ 1 | <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--------------|-------|-------|-----|
| Calcium | ppm | ■ 187 | ■ 225 | ■ 141 | 36 |
| Magnesium | ppm | ■ 43 | ■ 12 | ■ 22 | 10 |
| Zinc | ppm | ■ 192 | 110 | ■ 252 | 33 |
| Phosphorus | ppm | ■ 254 | ■ 943 | ■ 502 | 975 |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | 0 |
| Boron | ppm | ■ 23 | ■ 156 | ■ 40 | 152 |

Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. Gear wear is indicated. Appearance is unacceptable. There is a high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: RIPTAM
Unique No: 10887347
Signed: Sean Felton
Report Date: 22 Feb 2024



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GRAPHS

